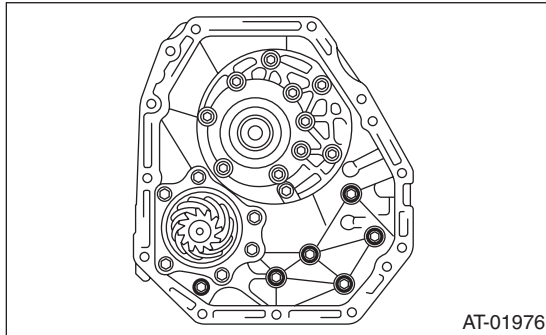


### 31.Oil Pump Cover

#### A: REMOVAL

- 1) Remove the transmission assembly from vehicle body. <Ref. to 5AT-40, REMOVAL, Automatic Transmission Assembly.>
- 2) Pull out the torque converter assembly. <Ref. to 5AT-66, REMOVAL, Torque Converter Assembly.>
- 3) Remove the transmission harness connector from stay.
- 4) Remove the oil charge pipe. <Ref. to 5AT-65, REMOVAL, Oil Charge Pipe.>
- 5) Remove the ATF inlet and outlet pipes. <Ref. to 5AT-61, REMOVAL, ATF Cooler Pipe and Hose.>
- 6) Separate the converter case and transmission case. <Ref. to 5AT-80, REMOVAL, Converter Case.>
- 7) Remove the oil pump cover mounting bolt, and then separate the oil pump cover from the AT main case by lightly tapping with plastic hammer.

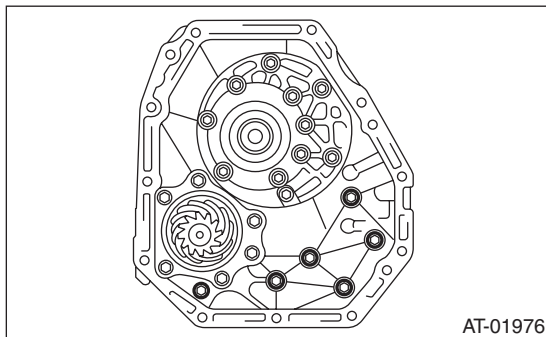


#### B: INSTALLATION

- 1) Secure the oil pump cover.

##### **Tightening torque:**

**41 N·m (4.2 kgf-m, 30.2 ft-lb)**



- 2) Install the converter case assembly to the transmission case assembly. <Ref. to 5AT-80, INSTALLATION, Converter Case.>
- 3) Install the transmission harness connector to the stay.
- 4) Install the ATF cooler pipe. <Ref. to 5AT-62, INSTALLATION, ATF Cooler Pipe and Hose.>
- 5) Install the oil charge pipe together with an O-ring. <Ref. to 5AT-65, INSTALLATION, Oil Charge Pipe.>

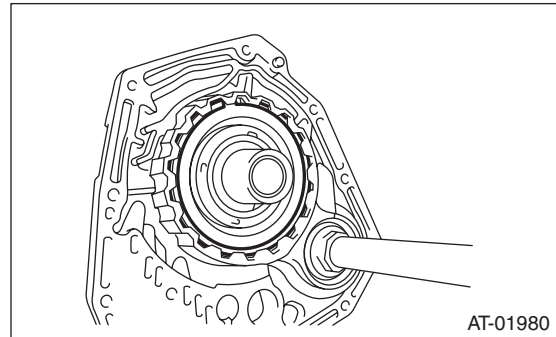
- 6) Install the torque converter assembly. <Ref. to 5AT-66, INSTALLATION, Torque Converter Assembly.>

- 7) Install the transmission assembly to the vehicle. <Ref. to 5AT-43, INSTALLATION, Automatic Transmission Assembly.>

#### C: DISASSEMBLY

##### 1. FRONT BRAKE

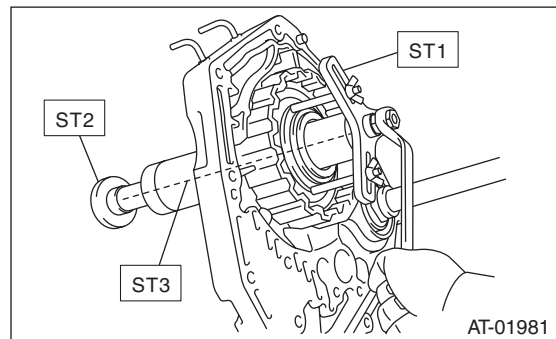
- 1) Remove the snap ring.



- 2) Remove the retainer plate, drive plate and driven plate.

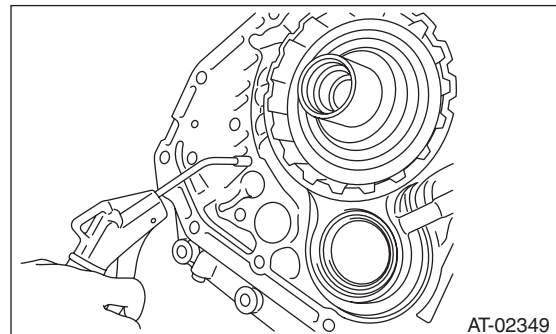
- 3) Using the ST1, ST2 and ST3, remove the snap ring.

- |     |            |                         |
|-----|------------|-------------------------|
| ST1 | 18762AA000 | COMPRESSOR SPECIAL TOOL |
| ST2 | 18765AA000 | COMPRESSOR SUPPORT      |
| ST3 | 18763AA000 | COMPRESSOR SHAFT        |



- 4) Remove the retainer and return spring.

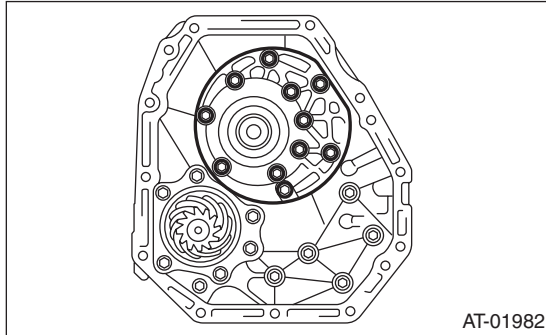
- 5) Remove the front brake piston using compressed air.



- 6) Remove the D-ring from front brake piston.

## 2. OIL PUMP

- 1) Take out the oil pump housing.



- 2) Take out the oil pump body.

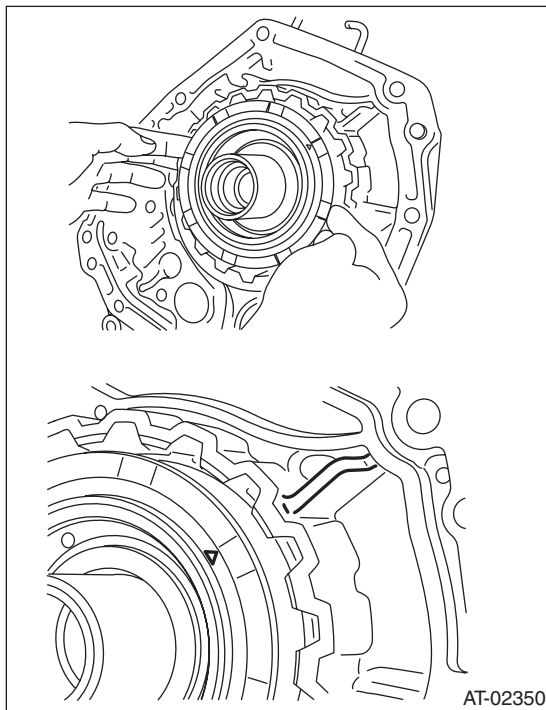
## D: ASSEMBLY

### 1. FRONT BRAKE

- 1) Apply ATF to D-ring, and then install it to the front brake piston.
- 2) Install the front brake piston to oil pump cover.

#### NOTE:

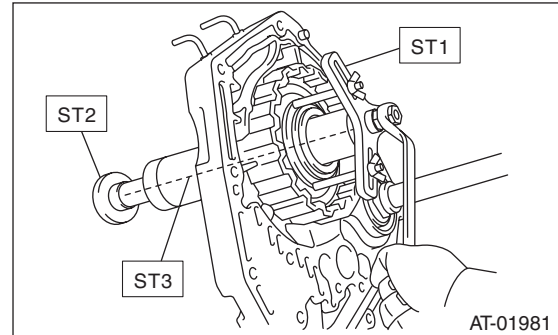
Install by aligning the “▲” mark on front brake piston surface with the oil pump cover rib.



- 3) Install the retainer and return spring.

- 4) Install the front brake piston assembly using ST1, ST2 and ST3.

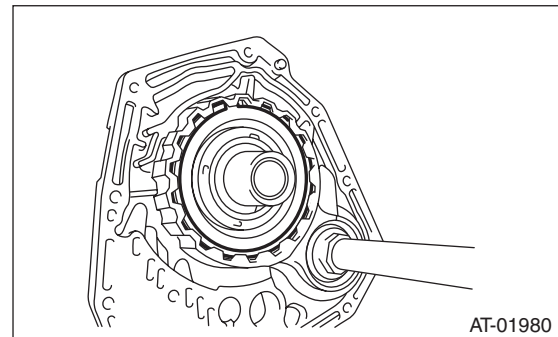
ST1 18762AA000 COMPRESSOR SPECIAL TOOL  
ST2 18765AA000 COMPRESSOR SUPPORT  
ST3 18763AA000 COMPRESSOR SHAFT



- 5) Install the genuine driven plate instead of retainer plate, and temporarily assemble the drive plate and driven plate.

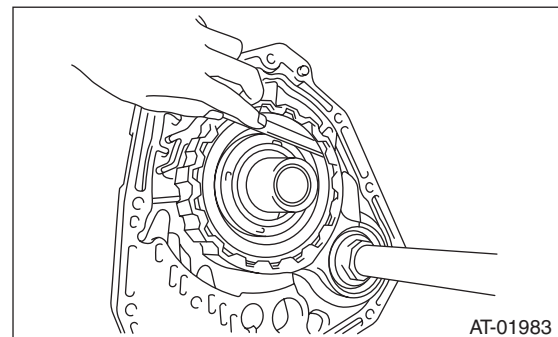
Part No. 31536AA290 DRIVEN PLATE

- 6) Install the snap ring.



- 7) Measure the clearance between retainer plate and snap ring, and then select the suitable retainer plate from table.

**Front brake clearance specification:**  
**0.7 — 1.1 mm (0.028 — 0.043 in)**



Front brake retainer plate	
Part No.	Thickness mm (in)
31567AB130	3.4 (0.134)
31567AB140	3.6 (0.142)
31567AB150	3.8 (0.150)
31567AB160	4.0 (0.157)

# Oil Pump Cover

## AUTOMATIC TRANSMISSION

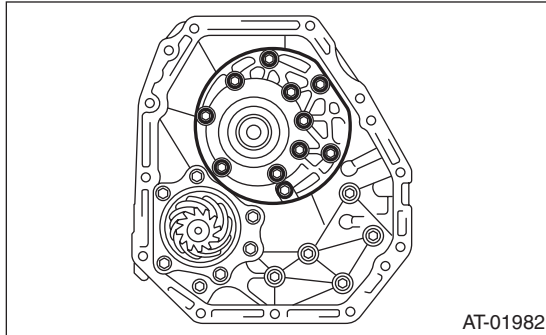
8) Remove the snap ring, replace the driven plate used in measurement of clearance with the retainer plate, and then reassemble.

### 2. OIL PUMP

- 1) Apply ATF to oil pump assembly, and then install it to oil pump housing.
- 2) Install the O-ring to oil pump cover.
- 3) Install the oil pump housing to the oil pump cover.

#### Tightening torque:

**10 N·m (1.0 kgf-m, 7.4 ft-lb)**



## E: INSPECTION

### 1. FRONT BRAKE

Check the following items.

- Drive plate facing for wear and damage
- Snap ring for wear, return spring for damage, and retainer for damage
- Piston for damage
- D-ring for damage

### 2. OIL PUMP

Check the following items.

- Oil pump cover and oil seal for breakage or damage
- Oil pump body for scratch or damage

1) Check the seal ring and oil seal for breaks and damage.

2) Check other parts for dents or faults.

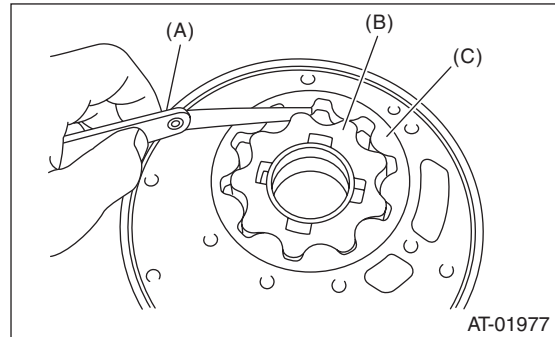
### 3) Oil pump rotor assembly selection

#### (1) Tip clearance

Install the inner rotor and outer rotor to oil pump housing. With rotor gears facing each other, measure the crest-to-crest clearance.

#### Tip clearance:

**0.02 — 0.15 mm (0.0008 — 0.0059 in)**



(A) Thickness gauge

(B) Inner rotor

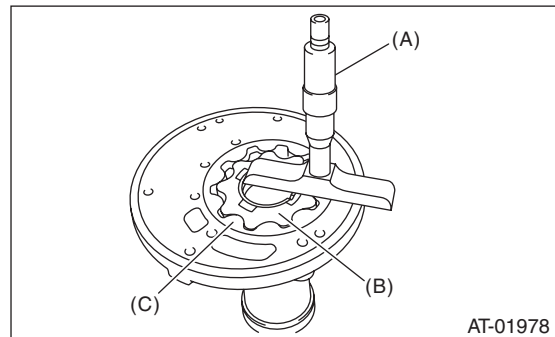
(C) Outer rotor

#### (2) Side clearance

Set a depth gauge to oil pump housing, then measure the oil pump housing-to-rotor clearance.

#### Side clearance:

**0.02 — 0.045 mm (0.0008 — 0.0018 in)**



(A) Depth gauge

(B) Inner rotor

(C) Outer rotor

(3) If the depth and/or side clearance are not within the specification, replace the rotor assembly.

Oil pump rotor assembly	
Part No.	Thickness mm (in)
15008AA130	11.37 — 11.38 (0.4476 — 0.4480)
15008AA140	11.38 — 11.39 (0.4480 — 0.4484)
15008AA150	11.39 — 11.40 (0.4484 — 0.4488)

Measure the total end play and adjust it to be within specifications. <Ref. to 5AT-104, ADJUSTMENT, AT Main Case.>